

**PHOSPHATE POWDER COMPOSITIONS AND METHOD
FOR FORMING PARTICLES WITH COMPLEX ANIONS**

ABSTRACT OF THE DISCLOSURE

Nanoscale and submicron particles have been produced with polyatomic anions. The particles can be crystalline or amorphous. The particles are synthesized in a flowing reactor, preferably with an intense light beam driving the reaction. In preferred embodiments, the particles are highly uniform. Batteries can be formed from submicron and nanoscale lithium metal phosphates. Coatings also can be formed from the particles.

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